

PATENT
915.409

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the matter of: Mikkonen et al)
Serial No:) Group Art Unit
Filed: Herewith) Examiner:
For: Improved Antenna)

U.S. PATENT AND TRADEMARK OFFICE
P.O. BOX 2327
ARLINGTON, VA 22202

PRELIMINARY AMENDMENT

Sir:

Please preliminarily amend the above-referenced application as follows:

In the Claims:

Please amend claims 3 and 5 as follows and add claims 8 - 11 as listed below.

1 3. (Amended) An antenna according to claim 2 further having a ground plane
2 provided opposite the radiator surface.

1 5. (Amended) An antenna according to claim 4 in which there is provided a
2 dielectric on the radiator surface.

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Please add:

- 1 8. An antenna according to claim 1 further having a ground plane provided
- 2 opposite the radiator surface.

- 1 9. An antenna according to claim 8 wherein the ground plane is a planar surface.

- 1 10. An antenna according to claim 1 in which there is provided a dielectric on the
- 2 radiator surface.

- 1 11. An antenna according to claim 10 wherein the dielectric increases the average
- 2 height of the antenna.

In the Abstract:

Please replace paragraph beginning at line 1 of page 8 with the following rewritten paragraph:

-- Abstract of the Disclosure

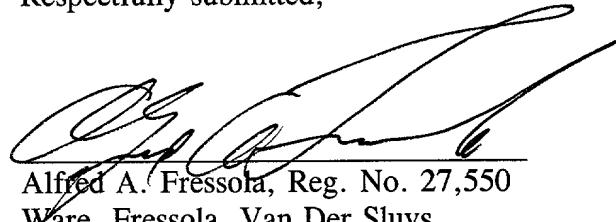
There is disclosed an antenna, suitable for use in a mobile device such as a mobile station having a non-planar radiator surface extending in three dimensions.--

Remarks

This preliminary amendment is filed for the purpose of placing the application into standard U.S. format and to delete any multiple dependent claims. Claims 3 and 5 have been amended and claims 8 - 11 have been added. Consideration and allowance of the claims is respectfully requested.

Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. The attached page is captioned "Version with markings to show changes made."

Respectfully submitted,



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VERSION WITH MARKINGS TO SHOW CHANGES MADEIn the Claims:

Claims 3 and 5 have been amended as follows:

1 3. (Amended) An antenna according to [claim 1 or] claim 2 further having a
2 ground plane provided opposite the radiator surface.

1 5. (Amended) An antenna according to [any preceding] claim 4 in which there is
2 provided a dielectric on the radiator surface.

In the Abstract:

Paragraph beginning at line 1 of page 8 has been amended as follows:

[Abstract] Abstract of the Disclosure

There is disclosed an antenna, suitable for use in a mobile device such as a mobile station having a non-planar radiator surface extending in three dimensions.

[[Figure 2]]